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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/675,023	09/28/2000	Richard S. Burton	60944.3300	7669
7590 06/25/2004			EXAMINER	
SCOTT A. HORSTEMEYER			LEE, HSIEN MING	
THOMAS,KAYDEN,HORSTEMEYER & RISLEY, L.L.P. 100 GALLERIA PARKWAY SUITE 1750 ATLANTA, GA 30339			T	n . non . un onen
			ART UNIT	PAPER NUMBER
			2823	
			DATE MAILED: 06/25/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)				
Office Action Summary		09/675,023	BURTON ET AL.				
		Examiner	Art Unit				
		Hsien-Ming Lee	2823				
Th MAILING DA	TE of this communication ap	pears on the cover sheet with the	correspondence address				
THE MAILING DATE O - Extensions of time may be ave after SIX (6) MONTHS from th - If the period for reply specified - If NO period for reply is specified - Failure to reply within the set of	F THIS COMMUNICATION. iilable under the provisions of 37 CFR 1. e mailing date of this communication. above is less than thirty (30) days, a reped above, the maximum statutory period or extended period for reply will, by statut te later than three months after the mailing	LY IS SET TO EXPIRE 3 MONTH 136(a). In no event, however, may a reply be tild by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE and date of this communication, even if timely file	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1) Responsive to co	mmunication(s) filed on 30 A	<u> April 2004</u> .					
2a) ☐ This action is FIN	IAL. 2b)⊠ Thi	s action is non-final.					
3) Since this applica	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accorda	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 25,33,30	Claim(s) <u>25,33,36-42,44,48-51,55-57 and 68-70</u> is/are pending in the application.						
4a) Of the above	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>25,33,3</u>	☑ Claim(s) <u>25,33,36-42,49-51,68 and 69</u> is/are allowed.						
6) Claim(s) is	Claim(s) is/are rejected.						
7)⊠ Claim(s) <u>44, 48,</u>	Claim(s) <u>44, 48, 55-57 and 70</u> is/are objected to.						
8) Claim(s) a	Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9)☐ The specification	is objected to by the Examin	er.					
10) ☐ The drawing(s) file	ed on is/are: a)□ ac	cepted or b) objected to by the	Examiner.				
Applicant may not	request that any objection to the	e drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or decla	ration is objected to by the E	examiner. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. §	119						
a) All b) Som 1. Certified co 2. Certified co 3. Copies of to application	e * c) None of: opies of the priority document opies of the priority document the certified copies of the priority from the International Burea	nts have been received in Applicatority documents have been received.	tion No red in this National Stage				
		11.					
Attachment(s)		Ksen	Ming Le for pour				
1) Notice of References Cited	(PTO-892)						
2) Notice of Draftsperson's Pa	atent Drawing Review (PTO-948)	Paper No(s)/Mail D					
3) Information Disclosure State Paper No(s)/Mail Date	tement(s) (PTO-1449 or PTO/SB/08 	6) Other:	. don /ppiioddon (r 10-102)				

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DETAILED ACTION

Remarks

- 1. The 112-second paragraph rejection to claims 36 and 44 and objection to claims 69 and 70 are withdrawn.
- 2. Claims 25, 33, 36-42, 44, 48-51, 55-57 and 68-70 are pending in the application.

Double Patenting

3. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

4. Applicant is advised that should claims 36, 49-51 and 69 be found allowable, claims 44, 55-57 and 70 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a *slight difference in wording*, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

In comparison, the **body** of two independent claims 36 are **identical** except *slight* difference in wording in preamble recitations, i.e. the preamble in claim 36 is "A method for forming an ohmic contact on a compound semiconductor layer of a semiconductor

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device comprising", whereas the preamble in claim 44 is "An ohmic contact to a compound semiconductor layer of a semiconductor device made by a method."

Although it is noted that claim 44 is a product-by-process claim, product-by-process claims are directed to the product no matter how actually made. *In re Taylor*, 149 USPQ 615, 617 (CCPA 1966). Consequently, it is the patentability of the **final product**, and **not** the patentability of the process, that must be determined in a product-by-process claim. *In re Thorpe*, 227 USPQ 964, 966 (CAFC 1985), *Ex parte Edwards* 231 USPQ 981, 983 (BdPatApp&Int 1986). Since preamble language in claim 44 does **not** constitute a structural limitation of the "ohmic contact", thus the preamble does **not** limit the claim and is of no significance to claim construction. See M.P.E.P. 2111.02. For the aforementioned reasons, claim 44 is treated as a substantially identical claim to claim 36.

Allowable Subject Matter

- 5. Claims 36, 25, 33, 37-42, 49-51, 68 and 69 are allowed.
- 6. Claim 44 would be allowable if rewritten or amended to overcome the objection under 37 CFR 1.75, as set forth in this Office action.
- 7. Claims 48, 55-57 and 70 are objected to as being dependent upon an objected base claim 44, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record neither teaches nor suggests that a reactive layer is nickel and an adhesive element chosen form chromium, titanium or silicon.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hsien-Ming Lee whose telephone number is 571-272-1863. The examiner can normally be reached on M-F (9:00 ~ 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on 571-272-1855. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hsien-Ming Lee Primary Examiner Art Unit 2823

June 22, 2004

Spein Ming Lee